	TTT IMEDI	INE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 13:15:22 ON 18 OCT 2001
L1	15940	S C398? OR 8F4 OR ICOS OR H4 OR AILIM OF F44
L2	1621	S L1 AND ANTIBOD?
L3	59	S L2 AND CD28
. L4	28	DUP REM L3 (31 DUPLICATES REMOVED)
L5	16028	S C398? OR 8F4 OR ICOS OR H4 OR AILIM OR F44
L6	1453	S L5 (P) ANTIBOD?
L7	152	S L5 AND CD28
L8	20	S L7 AND PY<2000
L9	11	DUP REM L8 (9 DUPLICATES REMOVED)
L10	12	S C398.4A (P) ANTIBOD?
L11	4	S F44 (P) ANTIBOD?
L12	8	S 8F4 (P) ANTIBOD?
L13	4	DUP REM L10 (8 DUPLICATES REMOVED)
L14	1	DUP REM L11 (3 DUPLICATES REMOVED)
L15	4	DUP REM L12 (4 DUPLICATES REMOVED)
L16	168	S JTT
L17	11	S L16 AND ANTIBOD?
L18	8	DUP REM L17 (3 DUPLICATES REMOVED)

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L13 ANSWER 1 OF 4 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2001103128 MEDLINE

DOCUMENT NUMBER: 20545231 PubMed ID: 11093165

TITLE: The T cell activation molecule H4 and the CD28-like

molecule ICOS are identical.

AUTHOR: Buonfiglio D; Bragardo M; Redoglia V; Vaschetto R;

Bottarel

F; Bonissoni S; Bensi T; Mezzatesta C; Janeway Jr C A;

Dianzani U

CORPORATE SOURCE: Department of Medical Sciences, "A. Avogadro" University

of

Eastern Piedmont at Novara, Novara, Italy.

SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (2000 Dec) 30 (12) 3463-7.

Journal code: EN5. ISSN: 0014-2980.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200101

ENTRY DATE: Entered STN: 20010322

Last Updated on STN: 20010322 Entered Medline: 20010126

AB The recently cloned CD28-like molecule ICOS displays striking similarities

with H4, characterized some years ago in the mouse and recently in humans.

Both molecules are selectively expressed by activated and germinal center T cells, display similar structure, and display co-stimulatory activities.

H4 displays lateral association with the CD3/TCR and is expressed by mature thymocytes. In the mouse, H4 is also expressed at high levels by thymic NKT cells that are resistant to negative selection. The aim of

work was to evaluate whether H4 and ICOS are the same molecule using the C398.4A (binding human and mouse H4) and F44 (binding human ICOS) monoclonal antibody (mAb) in parallel experiments on human T cells. ICOS and H4 displayed the same expression pattern in a panel of T cell lines and the same expression kinetics in phytohemagglutinin-activated T cells. C398.4A completely blocked cell staining by F44, whereas F44 partially blocked C398.4A. H4 and ICOS immunoprecipitates displayed identical SDS-PAGE patterns and H4 immunoprecipitation completely removed ICOS from cell lysates. Finally, the C398.4A mAb specifically stained cells transfected with the human or mouse ICOS.

These

data prove that H4 and ICOS are the same molecule and that F44 and C398.4A bind partially different epitop

L13 ANSWER 2 OF 4 MEDLINE DUPLICATE 2

ACCESSION NUMBER: 1999438042 MEDLINE

DOCUMENT NUMBER: 99438042 PubMed ID: 10508261
TITLE: Characterization of a novel human surface molecule

selectively expressed by mature thymocytes, activated T

cells and subsets of T cell lymphomas.

AUTHOR: Buonfiglio D; Bragardo M; Bonissoni S; Redoglia V; Cauda

R;

Zupo S; Burgio V L; Wolff H; Franssila K; Gaidano G;

Carbone A; Janeway C A Jr; Dianzani U

CORPORATE SOURCE: Department of Medical Sciences, A. Avogadro" University of

Eastern Piedmont at Novara, Novara, Italy.

SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (1999 Sep) 29 (9) 2863-74.

Journal code: EN5; 1273201. ISSN: 0014-2980.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199910

ENTRY DATE: Entered STN: 20000111

Last Updated on STN: 20000111 Entered Medline: 19991026

AB We have previously characterized mouse H4 (mH4), a surface glycoprotein recognized by the C398.4A monoclonal antibody

. We now show that C398.4A also binds its human

putative homolog (hpH4). Both hpH4 and mH4 (1) are selectively expressed by activated T cells and mature thymocytes, (2) are disulfide-linked dimers of two chains (29/37 kDa in humans, 25/29 kDa in mice), whose N-deglycosylation produces a single band at 20 - 21 kDa, and (3) display

low association with CD4 and the TCR. The expression pattern of hpH4 and its biochemical features showed that it is different from other known activation molecules, and this was confirmed when analysis of the tryptic digest of the hpH4 29-kDa band by peptide mass searching using matrix-assisted laser desorption ionization mass spectrometry did not reveal any significant homology with other molecules. In normal lymphoid tissue, hpH4 is expressed by T cells located at the periphery of lymph node germinal centers and paracortical areas. In T cell neoplasia, expression of hpH4 clusters with a subset of peripheral T cell lymphomas with a large-cell component, and with cases of angioimmunoblastic T cell lymphomas. Overall, these data provide evidence for a novel T cell activation molecule that could help in the phenotypic categorization of T cell malignancies.

L13 ANSWER 3 OF 4 MEDLINE DUPLICATE 3

ACCESSION NUMBER: 97080624 MEDLINE

DOCUMENT NUMBER: 97080624 PubMed ID: 8921969

TITLE: Characterization of H4: a mouse T lymphocyte activation

molecule functionally associated with the CD3/T cell

receptor.

AUTHOR: Redoglia V; Dianzani U; Rojo J M; Portoles P; Bragardo M;

Wolff H; Buonfiglio D; Bonissoni S; Janeway C A Jr

CORPORATE SOURCE: Divisione Universitaria di Ematologia, Dipartimento di

Medicina e Oncologia Sperimentale, Universita di Torino,

Italy.

CONTRACT NUMBER: AI-26810 (NIAID)

SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (1996 Nov) 26 (11) 2781-9.

Journal code: EN5; 1273201. ISSN: 0014-2980.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199701

gave

ENTRY DATE: Entered STN: 19970128

Last Updated on STN: 19970128

Entered Medline: 19970108

AB The monoclonal antibody C398.4A was produced

by immunizing Armenian hamsters with the mouse T cell clone D10.G4.1. It recognizes a molecule selectively expressed by activated mouse T cells and

was named H4. H4 is expressed on the T cell surface about 24 h after activation and peaks at day 7. By contrast, it is not expressed by resting

or activated B cells, macrophages, or fibroblasts. It is also expressed by

CD4 or CD8 single-positive mature thymocytes. Immunoprecipitation showed that H4 is a disulfide-linked dimer, precipitating as a broad band at about 50-65 kDa under nonreducing conditions and at 25 and 29 kDa under reducing conditions. Deglycosylation of the reduced H4 by N-glycanase

rise to a single band of about 21 kDa, suggesting that the two chains may be differentially glycosylated forms of the same protein. The H4 expression pattern and biochemical features, together with cross-blocking,

co-capping, co-modulation, and immunoprecipitation preclearing experiments

showed that H4 is different from other known co-stimulatory molecules such

as CD69, CD2, Ly-6, CD25, OX-40, Mac-1 and LFA-1. By in vitro kinase assay, H4 was found to co-precipitate a tyrosine kinase activity that phosphorylated substrates of about 29 and 25 kDa. Co-modulation and co-capping experiments showed that H4 is physically associated with the CD3/T cell receptor. These data suggest that H4 may function as a T cell-specific co-stimulatory molecule and play a role in the T cell response when the activation stimulus is limited either because the antigen is only available in low concentration or has a low agonistic activity.

L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1997:49620 CAPLUS

DOCUMENT NUMBER:

126:102759

TITLE:

H4: a new molecule for murine activation associated

with CD3/TCR and tyrosine kinase activity

AUTHOR(S):

Redoglia, V.; Bragardo, M.; Buonfiglio, D.; Bergamo,

A.; Rojo, J.; Janeway, C. A.; Dianzani, U.

CORPORATE SOURCE:

Dipartmento Medicina Oncologia Sperimentale, Univ.

Torino, Italy

SOURCE:

Immunol. 95, Atti Congr. Naz. Soc. Ital. Immunol. Immunopatol., 14th (1995), 295-299. Editor(s):

Dammacco, Franco. Monduzzi Editore: Bologna, Italy.

CODEN: 63WGAL

DOCUMENT TYPE:

Conference Italian

LANGUAGE:

The authors obtained a monoclonal antibody C398.

4A following the immunization of Armenian hamsters with the Th2 murine clone D10. The C398.4A recognized a surface

mol., named H4, which is expressed selectively on activated T cells and mature thymocytes CD3bright single-pos. for CD4 or CD8. H4 is a dimer of

25 and 29 KDa, that following deglycosylation produces a single band at 21

KDa. H4 co-ppts. with a tyrosine kinase activity of 56-59 KDa. co-capping and co-modulation expts. demonstrated that H4 is possibly phys.

assocd. with the CD3/TCR complex on the T cell surface.

L14 ANSWER 1 OF 1 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2001103128 MEDLINE

DOCUMENT NUMBER: 20545231 PubMed ID: 11093165

TITLE: The T cell activation molecule H4 and the CD28-like

molecule ICOS are identical.

AUTHOR: Buonfiglio D; Bragardo M; Redoglia V; Vaschetto R;

Bottarel

F; Bonissoni S; Bensi T; Mezzatesta C; Janeway Jr C A;

Dianzani U

CORPORATE SOURCE: Department of Medical Sciences, "A. Avogadro" University

of

Т

Eastern Piedmont at Novara, Novara, Italy.

SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (2000 Dec) 30 (12) 3463-7.

Journal code: EN5. ISSN: 0014-2980.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200101

ENTRY DATE: Entered STN: 20010322

Last Updated on STN: 20010322 Entered Medline: 20010126

AB The recently cloned CD28-like molecule ICOS displays striking similarities

with H4, characterized some years ago in the mouse and recently in humans.

Both molecules are selectively expressed by activated and germinal center T cells, display similar structure, and display co-stimulatory activities.

H4 displays lateral association with the CD3/TCR and is expressed by mature thymocytes. In the mouse, H4 is also expressed at high levels by thymic NKT cells that are resistant to negative selection. The aim of

work was to evaluate whether H4 and ICOS are the same molecule using the C398.4A (binding human and mouse H4) and **F44** (binding human ICOS) monoclonal **antibody** (mAb) in parallel experiments on human T cells. ICOS and H4 displayed the same expression pattern in a panel of

cell lines and the same expression kinetics in phytohemagglutinin-activated T cells. C398.4A completely blocked cell staining by F44, whereas F44 partially blocked C398.4A. H4 and ICOS immunoprecipitates displayed identical SDS-PAGE patterns and H4 immunoprecipitation completely removed ICOS from cell lysates. Finally, the C398.4A mAb specifically stained cells transfected with the human or mouse ICOS. These data prove that H4 and ICOS are the same molecule and that F44 and C398.4A bind partially different epitopes

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 2001:167838 CAPLUS

DOCUMENT NUMBER:

134:221432

TITLE:

Remedies for immunological diseases

INVENTOR(S):

Tezuka, Katsunari; Watanabe, Yoshihiro; Abe, Ryo

PATENT ASSIGNEE(S):

Japan Tobacco Inc., Japan PCT Int. Appl., 144 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                   KIND DATE
                                        APPLICATION NO. DATE
     ______
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                           20010308 WO 2000-JP5868 20000830
    WO 2001015732
                    A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
            HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
            MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
            ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                        20010731
                                                          20000830
    BR 2000007047
                     Α
                                       BR 2000-7047
                         20010822
                                         EP 2000-956800
                                                          20000830
    EP 1125585
                     A1
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
                     A 20010629
                                                          20010427
                                         NO 2001-2105
    NO 2001002105
                                       JP 1999-242672
                                                       A 19990830
PRIORITY APPLN. INFO.:
                                                      A 20000824
                                       JP 2000-254680
                                       JP 2000-2000254680A 20000824
                                                      W 20000830
                                      WO 2000-JP5868
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AB It has been found out that antibodies against AILIM (also called JTT-1 antigen, JTT-2 antigen, ICOS and 8F4) exert significant therapeutic effects on joint diseases such as articular rheumatism and arthritis deformans, graft-vs.-host disease, transplantation immunol. rejection, inflammation (hepatitis, inflammatory diseases, etc.) and symptoms in assocn. with immune sensitization by a foreign antigen and the thus induced hyperprodn. of an antibody against the antigen.

L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:553593 CAPLUS

DOCUMENT NUMBER:

133:176161

TITLE:

Novel polypeptides involved in immune response

Yoshinaga, Steven Kiyoshi INVENTOR(S):

PATENT ASSIGNEE(S):

Amgen Inc., USA

SOURCE:

PCT Int. Appl., 174 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PAT	PATENT NO.				1D	DATE			Al	PPLI	CATI	ο.	DATE						
					A2 20000810				W	20	2000	0127							
WO	2000046240								BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,										
	W:	ΑE,	AL,	AM,	ΑT,	ΑU,	ΑZ,	ΒA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,		
		CZ,	DE,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	ΗU,	ID,	IL,		
														LT,					
		MD.	MG.	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,		
														YU,					
			BY,																
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,		
														SE,					
			CI,																
PRIORITY	RIORITY APPLN. INFO												A2 19990203						
								US 1999-264527 A2						2 19990308					

Novel polypeptides which comprise a receptor-ligand pair involved in AΒ T-cell activation are disclosed. The polypeptides are CD28-related protein 1 or CRP1 and B7-related protein 1 or B7RP1. Nucleic acid mols. encoding said polypeptides, and vectors and host cells for expressing

same

are also disclosed. The polypeptides, or agonists and antagonists thereof, are used to treat T-cell mediated disorders.

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

2000:676482 CAPLUS

DOCUMENT NUMBER:

133:349067

TITLE:

Identification and Characterization of Rat

AILIM/ICOS,

a Novel T-Cell Costimulatory Molecule, Related to the

CD28/CTLA4 Family

AUTHOR(S):

Tezuka, Katsunari; Tsuji, Takashi; Hirano, Daisuke; Tamatani, Takuya; Sakamaki, Kazuhiro; Kobayashi,

Yuko;

Kamada, Masafumi

CORPORATE SOURCE:

Pharmaceutical Frontier Research Laboratories, JT Inc., Kanazawa-ku, Yokohams, Kanagawa, 236-0004,

Japan SOURCE:

Biochem. Biophys. Res. Commun. (2000), 276(1),

335-345

CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER:

Academic Press

DOCUMENT TYPE: LANGUAGE:

Journal English

Activation-inducible lymphocyte immuno-mediatory mol. (AILIM) is an inducible cell surface glycoprotein expressed on thymocytes and activated lymphocytes. Specific monoclonal **antibody** to rat AILIM induced the cell aggregation of a rat thymoma cell line and ConA-activated splenocytes. In the present study, the authors identified the primary structure of two species of rat AILIM by expression cloning. The authors also cloned mouse and human AILIM homologs and the predicted amino acid sequences were identical to those of the inducible costimulator ICOS/CRP-1, which belongs to the CD28/CTLA4 family. Although the human and mouse AILIM/ICOS mol. is localized on T-cells, the major population

of

AILIM/ICOS-pos. cells in rat spleen was CD45RA-pos. B-cells. The expression level of AILIM/ICOS on T-cells was relatively low; however,

its

expression was drastically induced by the treatment with PMA plus Ca-ionophore or the engagement of CD3 and these costimulatory mols. Almost all T-cells exhibited potency as to its expression. Functional anal. of AILIM/ICOS demonstrated that AILIM-mediated costimulation was relatively weak compared to that of human. (c) 2000 Academic Press.

REFERENCE COUNT:

REFERENCE(S):

- (1) Azuma, M; Nature 1993, V366, P76 CAPLUS
- (2) Damle, N; J Immunol 1992, V148, P1985 CAPLUS
  (4) Freeman, G; Science 1993, V262, P909 CAPLUS
  (5) Gross, J; J Immunol 1992, V149, P380 CAPLUS

- (6) Hara, T; EMBO J 1992, V11, P1875 CAPLUS

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2001 ACS 1999:222955 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 130:266358 T cell-costimulating protein and cDNA and diagnostic TITLE: and therapeutic methods Kroczek, Richard INVENTOR(S): PATENT ASSIGNEE(S): Bundesrepublik Deutschland Letztvertreten Durch Den Direktor Des Robert-Koch, Germany SOURCE: PCT Int. Appl., 47 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent German LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: KIND DATE APPLICATION NO. DATE PATENT NO. -----WO 9915553 A2 19990401 WO 1998-DE2896 19980923 A3 WO 9915553 19990520

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A1 19990415 DE 1998-19821060 19980511 DE 19821060 AU 1999-13320 **A**1 19990412 19980923 AU 9913320 EP 1998-956800 19980923 A2 20000712 EP 1017723 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 2001517425 20011009 JP 2000-512857 19980923 T2DE 1997-19741929 A 19970923 PRIORITY APPLN. INFO.: DE 1998-19821060 A 19980511 WO 1998-DE2896 W 19980923

AB A protein with a T cell-costimulating biol. activity, monoclonal antibodies against said protein and hybridoma cells which produce the monoclonal antibodies, the therapeutic use of substances which inhibit the biol. activity of the protein, and the diagnostic use

substances which bind to the protein or nucleic acid are disclosed. The

cell-costimulating protein is expressed on activated CD4+- and CD8+-expressing T cells. It consists of two proteins with mol. wt. 27-29 kilodaltons. This costimulatory protein differs from CD28 in that it is induced, not constitutive. Addnl., costimulation through this protein leads to increased expression of lymphokines, but not interleukin 2.

of

L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

CORPORATE SOURCE:

1999:98548 CAPLUS

DOCUMENT NUMBER:

130:280500

TITLE:

ICOS is an inducible T-cell co-stimulator

structurally

and functionally related to CD28

AUTHOR(S):

Hutloff, Andreas; Dittrich, Anna M.; Beier, Katja C.;

Eljaschewitsch, Barbara; Kraft, Regine;

Anagnostopoulos, Lonnis; Kroczek, Richard A.

Molecular Immunology, Robert Koch-Institut, Berlin,

13353, Germany

SOURCE:

Nature (London) (1999), 397(6716), 263-266

CODEN: NATUAS; ISSN: 0028-0836

PUBLISHER:

Macmillan Magazines

DOCUMENT TYPE:

Journal English

LANGUAGE:

The T-cell-specific cell-surface receptors CD28 and CTLA-4 are important regulators of the immune system. CD28 potently enhances those T-cell functions that are essential for an effective antigen-specific immune response, and the homologous CTLA-4 counterbalances the CD28-mediated signals and thus prevents an otherwise fatal overstimulation of the

lymphoid system. Here the authors report the identification of a third member of this family of mols., inducible co-stimulator (ICOS), which is

а homodimeric protein of relative mol. mass 55,000-60,000 (Mr 55K-60K). Matching CD28 in potency, ICOS enhances all basic T-cell responses to a foreign antigen, namely proliferation, secretion of lymphokines, upregulation of mols. that mediate cell-cell interaction, and effective help for antibody secretion by B cells. Unlike the constitutively expressed CD28, ICOS has to be de novo induced on the T-cell surface, does not upregulate the prodn. of interleukin-2, but superinduces the synthesis of interleukin-10, a B-cell-differentiation factor. In vivo, ICOS is highly expressed on tonsillar T cells, which

are

closely assocd. with B cells in the apical light zone of germinal centers,

the site of terminal B-cell maturation. The authors' results indicate that ICOS is another major regulator of the adaptive immune system.

REFERENCE COUNT:

31

REFERENCE(S):

P8573

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## CAPLUS

- (3) Brunet, J; Nature 1987, V328, P267 CAPLUS
- (4) Chambers, C; Curr Opin Immunol 1997, V9, P396
- (5) Choe, J; Eur J Immunol 1998, V28, P508 CAPLUS
- (6) Cordell, J; J Histochem Cytochem 1984, V32, P219 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2001 ACS 1998:608643 CAPLUS ACCESSION NUMBER: 129:229678 DOCUMENT NUMBER: Cell surface molecule mediating cell adhesion and TITLE: signal transmission Tamatani, Takuya; Tezuka, Katsunari INVENTOR(S): PATENT ASSIGNEE(S): Japan Tobacco Inc., Japan PCT Int. Appl., 149 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent Japanese LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. DATE PATENT NO. KIND DATE \_\_\_\_\_\_ \_\_\_\_\_ A1 19980903 WO 1998-JP837 19980227 WO 9838216 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG JP 1998-62217 JP 11029599 A2 19990202 19980226 19980918 AU 1998-61185 19980227 AU 9861185 A1 AU 732378 B2 20010426 BR 1998-7788 19980227 20000215 BR 9807788 Α EP 1998-905708 A1 20000308 19980227 EP 984023 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO A 19991027 NO 1999-4146 19990826 NO 9904146 JP 1997-62290 A 19970227 PRIORITY APPLN. INFO.: A 19980226 JP 1998-62217 WO 1998-JP837 W 19980227

AB A novel cell surface mol. recognized by a monoclonal **antibody**, which is expressed specifically in thymocytes, lymphocytes activated by ConA-stimulation, peripheral blood lymphocytes, and has been found out from among monoclonal **antibodies** against cell surface mols. in lymphocytic cells having important roles in autoimmune diseases and allergic diseases, is isolated and identified. Further, functions of this

mol. are analyzed. Moreover, it is found that an antibody against this mol. significantly ameliorates conditions of autoimmune diseases and allergic diseases. The cell surface mol.-recognizing monoclonal antibodies JTT-1 and JTT-2 were derived from hybridoma clone JTT-1 (FERM BP-5707) and JTT-2 (FERM BP-5708), and the novel antigens recognized by these antibodies were named JTT.1 antigen and JTT.2 antigen. Also described were mol. cloning of human and rat and mouse JTT.1 antigen, prepn. of fusion proteins contg. human JTT .1 antigen, prepn. of transgenic mice contg. cDNA encoding rat or mouse JTT.1 antigen, as well as prepn. of compn. contg. antibodies JTT-1 or JTT-2 against exptl. allergic encephalomyelitis.

ANSWER 1 OF 11 MEDLINE 2000048143 MEDLINE ACCESSION NUMBER: 20048143 PubMed ID: 10581066 DOCUMENT NUMBER: T-cell stimulation: an abundance of B7s. TITLE: Comment on: Nat Med. 1999 Dec; 5(12):1365-9 COMMENT: Abbas A K; Sharpe A H AUTHOR: NATURE MEDICINE, (1999 Dec) 5 (12) 1345-6. SOURCE: Journal code: CG5; 9502015. ISSN: 1078-8956. PUB. COUNTRY: United States Commentary News Announcement LANGUAGE: English Priority Journals FILE SEGMENT: 199912 ENTRY MONTH: ENTRY DATE: Entered STN: 20000113 Last Updated on STN: 20000113 Entered Medline: 19991229 T-cell stimulation: an abundance of B7s. ΤI ANSWER 2 OF 11 CAPLUS COPYRIGHT 2001 ACS 1999:795994 CAPLUS ACCESSION NUMBER: 132:31744 DOCUMENT NUMBER: Gene probes used for genetic profiling in healthcare TITLE: screening and planning Roberts, Gareth Wyn INVENTOR(S): Genostic Pharma Ltd., UK PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 745 pp. CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_\_ WO 1999-GB1780 19990604 <--WO 9964627 A2 19991216 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A 19980606 PRIORITY APPLN. INFO.: GB 1998-12099 A 19980620 GB 1998-13291 A 19980624 GB 1998-13611 A 19980627 GB 1998-13835 GB 1998-14110 A 19980701 GB 1998-14580 A 19980707 GB 1998-15438 A 19980716 A 19980718 GB 1998-15574 A 19980718 GB 1998-15576 A 19980724 GB 1998-16085 A 19980724 GB 1998-16086 A 19980805 GB 1998-16921 GB 1998-17097 A 19980807

GB 1998-17200 A 19980808 GB 1998-17632 A 19980814 GB 1998-17943 A 19980819

TI Gene probes used for genetic profiling in healthcare screening and planning

L9 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:795993 CAPLUS

DOCUMENT NUMBER:

132:31743

TITLE:

SOURCE:

Gene probes used for genetic profiling in healthcare

screening and planning

INVENTOR(S):

Roberts, Gareth Wyn

PATENT ASSIGNEE(S):

Genostic Pharma Limited, UK PCT Int. Appl., 149 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.			KIND DATE					A		CATI	DATE							
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GB 1998-17632 A 19										1998	0814							
GB 1998-17943 A 199										1998	0819							
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TI Gene probes used for genetic profiling in healthcare screening and planning

L9 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:577016 CAPLUS

DOCUMENT NUMBER:

131:213102

TITLE:

Binding proteins containing modified V-like domains, methods for their production, and pharmaceutical use

INVENTOR(S):

Coia, Gregory; Galanis, Maria; Hudson, Peter John; Irving, Robert Alexander; Nuttall, Stewart Douglas

PATENT ASSIGNEE(S): Di

Diatech Pty. Ltd., Australia

PCT Int. Appl., 115 pp.

DOCUMENT TYPE: LANGUAGE:

SOURCE:

Patent English

CODEN: PIXXD2

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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KIND DATE
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               A1 19990920 AU 1999-28204 19990305
A1 20001213 EP 1999-908689 19990305
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    EP 1058728
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                                      AU 1998-2210
                                                      A 19980306
PRIORITY APPLN. INFO.:
                                                     W 19990305
                                      WO 1999-AU136
    Binding proteins containing modified V-like domains, methods for their
    production, and pharmaceutical use
REFERENCE COUNT:
                        (1) Davies, J; Protein Eng 1996, V9(6), P531 CAPLUS
REFERENCE(S):
                        (2) Jung, S; Protein Eng 1997, V10(8), P959 CAPLUS
                        (3) Patten; J Immunol 1993, V150(6), P2281 CAPLUS
                        (4) Peach, R; J Exp Med 1994, V180(6), P2049 CAPLUS
                        (5) Protein Design Labs Inc; WO 91/10438 1991 CAPLUS
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ANSWER 5 OF 11 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:549127 CAPLUS

DOCUMENT NUMBER:

131:183863

TITLE:

INVENTOR(S):

Compositions and methods for regulating lymphocyte activation Ledbetter, Jeffrey A.; Hayden-Ledbetter, Martha;

Brady, William A.; Grosmaire, Laura S.; Law,

Che-Leung; Dua, Raj

PATENT ASSIGNEE(S):

Xcyte Therapies, Inc., USA PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

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KIND DATE
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WO 9942077 A2 19990826 WO 1999-US3309 19990218 <--
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                                                          20000816
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                    A 20001018
                                      US 1998-75274
                                                      P 19980219
PRIORITY APPLN. INFO.:
                                                       P 19981116
                                      US 1998-108683
                                                     W 19990218
                                      WO 1999-US3309
ΤI
    Compositions and methods for regulating lymphocyte activation
    ANSWER 6 OF 11 CAPLUS COPYRIGHT 2001 ACS
1.9
                       1999:464188 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        131:101261
                        Methods of using human receptor protein 4-1BB
TITLE:
                       Kwon, Byoung S.
INVENTOR(S):
                       Advanced Research and Technology Institute, Inc., USA
PATENT ASSIGNEE(S):
                        PCT Int. Appl., 86 pp.
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                        CODEN: PIXXD2
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LANGUAGE:
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FAMILY ACC. NUM. COUNT:
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    WO 9936093
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                      A1
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                      A1
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                                      US 1993-12269
                                      US 1993-122796
                                                      B2 19930916
                                                      B2 19950323
                                      US 1995-409851
                                      WO 1999-US823
                                                      W 19990114
    Methods of using human receptor protein 4-1BB
REFERENCE COUNT:
                        (1) Debenedette, M; JOURNAL OF IMMUNOLOGY 1997,
REFERENCE(S):
                            V158(2), P551 CAPLUS
                        (2) Indiana University Foundation; WO 9629348 A 1996
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                        (5) Shuford, W; JOURNAL OF EXPERIMENTAL MEDICINE
1997,
                            V186(1), P47 CAPLUS
                                                      DUPLICATE 1
    ANSWER 7 OF 11
                       MEDLINE
ACCESSION NUMBER:
                   2000048154
                                 MEDLINE
                   20048154 PubMed ID: 10581077
DOCUMENT NUMBER:
                   B7-H1, a third member of the B7 family, co-stimulates
TITLE:
                   T-cell proliferation and interleukin-10 secretion.
                   Comment in: Nat Med. 1999 Dec; 5(12):1345-6
COMMENT:
                   Dong H; Zhu G; Tamada K; Chen L
                   Department of Immunology, Mayo Graduate and Medical
CORPORATE SOURCE:
```

Schools, Mayo Clinic, 200 First Street SW, Rochester,

Minnesota 55905, USA.

CONTRACT NUMBER:

CA09127 (NCI) CA79915 (NCI)

SOURCE:

NATURE MEDICINE, (1999 Dec) 5 (12) 1365-9. Journal code: CG5; 9502015. ISSN: 1078-8956.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT: OTHER SOURCE:

Priority Journals GENBANK-AF177937

ENTRY MONTH:

199912

ENTRY DATE:

Entered STN: 20000113

Last Updated on STN: 20000113 Entered Medline: 19991229

B7-H1, a third member of the B7 family, co-stimulates T-cell

proliferation

and interleukin-10 secretion.

ANSWER 8 OF 11 MEDLINE

> 2000083495 MEDITNE

ACCESSION NUMBER: 20083495 PubMed ID: 10617205 DOCUMENT NUMBER:

T-cell co-stimulation through B7RP-1 and ICOS. TITLE:

Yoshinaga S K; Whoriskey J S; Khare S D; Sarmiento U; Guo AUTHOR:

J; Horan T; Shih G; Zhang M; Coccia M A; Kohno T;

Tafuri-Bladt A; Brankow D; Campbell P; Chang D; Chiu L;

DUPLICATE 2

Dai

T; Duncan G; Elliott G S; Hui A; McCabe S M; Scully S;

Shahinian A; Shaklee C L; Van G; Mak T W; +

Amgen Inc., Thousand Oaks, California 91320, USA.. CORPORATE SOURCE:

syoshina@amgen.com

NATURE, (1999 Dec 16) 402 (6763) 827-32. SOURCE:

Journal code: NSC; 0410462. ISSN: 0028-0836.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

Priority Journals FILE SEGMENT:

ENTRY MONTH: 200001

ENTRY DATE: Entered STN: 20000124

Last Updated on STN: 20000124 Entered Medline: 20000110

T-cell co-stimulation through B7RP-1 and ICOS. TI

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:386078 CAPLUS

DOCUMENT NUMBER: 131:168884

T cell co-stimulatory molecules other than TITLE:

**CD28** 

Watts, Tania H.; DeBenedette, Mark A. AUTHOR(S):

Department of Immunology, University of Toronto, CORPORATE SOURCE:

Toronto, ON, M5S 1A8, Can.

Curr. Opin. Immunol. (1999), 11(3), 286-293 SOURCE:

CODEN: COPIEL; ISSN: 0952-7915 Current Biology Publications

PUBLISHER: DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

T cell co-stimulatory molecules other than CD28

63 REFERENCE COUNT:

(1) Abe, R; J Immunol 1995, V154, P985 CAPLUS REFERENCE(S): (2) Akiba, H; J Biol Chem 1998, V273, P13353 CAPLUS (3) Arch, R; Mol Cell Biol 1998, V18, P558 CAPLUS (4) Aversa, G; J Immunol 1997, V158, P4036 CAPLUS(5) Avraham, A; Eur J Immunol 1998, V28, P2320 CAPLUS ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 10 OF 11 MEDLINE DUPLICATE 3 ACCESSION NUMBER: 1999127892 MEDLINE 99127892 PubMed ID: 9930702 DOCUMENT NUMBER: ICOS is an inducible T-cell co-stimulator TITLE: structurally and functionally related to CD28. AUTHOR: Hutloff A; Dittrich A M; Beier K C; Eljaschewitsch B; Kraft R; Anagnostopoulos I; Kroczek R A Molecular Immunology, Robert Koch-Institut, Berlin, CORPORATE SOURCE: Germany. SOURCE: NATURE, (1999 Jan 21) 397 (6716) 263-6. Journal code: NSC; 0410462. ISSN: 0028-0836. PUB. COUNTRY: ENGLAND: United Kingdom Journal; Article; (JOURNAL ARTICLE) English LANGUAGE: Priority Journals FILE SEGMENT: PIR-S78540 OTHER SOURCE: ENTRY MONTH: 199902 ENTRY DATE: Entered STN: 19990301 Last Updated on STN: 19990301 Entered Medline: 19990218 ICOS is an inducible T-cell co-stimulator structurally and ΤI functionally related to CD28. ANSWER 11 OF 11 CAPLUS COPYRIGHT 2001 ACS 1999:680753 CAPLUS ACCESSION NUMBER: 132:221287 DOCUMENT NUMBER: A molecular model of inducible costimulator protein TITLE: and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors Bajorath, Jurgen AUTHOR(S): New Chemical Entities, Inc., Bothell, WA, 98011-8805, CORPORATE SOURCE: J. Mol. Model. (1999), 5(9), 169-176 SOURCE: CODEN: JMMOFK; ISSN: 0948-5023 PUBLISHER: Springer-Verlag DOCUMENT TYPE: Journal; (online computer file) English LANGUAGE: A molecular model of inducible costimulator protein and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors REFERENCE COUNT: (1) Aruffo, A; Proc Natl Acad Sci USA 1987, V84, REFERENCE(S): P8573 (2) Bairoch, A; Nucl Acid Res 1999, V27, P49 CAPLUS (3) Bajorath, J; Bioconjug Chem 1995, V6, P3 CAPLUS (4) Bajorath, J; J Biol Chem 1998, V273, P24603 CAPLUS (5) Bajorath, J; J Mol Graph Model 1997, V15, P135

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